

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,459	02/06/2004	Siegfried Meyer	MR1035-1224	5735
4586 75	12/01/2006		EXAMINER	
ROSENBERG, KLEIN & LEE			JOHNSON, MATTHEW A	
3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043		E 101	ART UNIT	PAPER NUMBER
DDDICOTT CIT	21013	.,	3682	
			DATE MAILED: 12/01/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/772,459	MEYER, SIEGFRIED			
Office Action Summary	Examiner	Art Unit			
	Matthew Johnson	3682			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)⊠ Responsive to communication(s) filed on <u>06 February 2004</u> .					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-5 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	•	•			
6)⊠ Claim(s) <u>1-5</u> is/are rejected.	•				
7) Claim(s) is/are objected to.	1				
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)⊠ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>06 February 2004</u> is/are: a) accepted or b)⊠ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D 5) Notice of Informal I				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date					

Art Unit: 3682

DETAILED ACTION

Priority

It is noted that this application appears to claim subject matter disclosed in prior 1. Application No. 60457299, filed March 3, 2003. A reference to the prior application must be inserted as the first sentence(s) of the specification of this application or in an application data sheet (37 CFR 1.76), if applicant intends to rely on the filing date of the prior application under 35 U.S.C. 119(e), 120, 121, or 365(c). See 37 CFR 1.78(a). For benefit claims under 35 U.S.C. 120, 121, or 365(c), the reference must include the relationship (i.e., continuation, divisional, or continuation-in-part) of all nonprovisional applications. If the application is a utility or plant application filed under 35 U.S.C. 111(a) on or after November 29, 2000, the specific reference to the prior application must be submitted during the pendency of the application and within the later of four months from the actual filing date of the application or sixteen months from the filing date of the prior application. If the application is a utility or plant application which entered the national stage from an international application filed on or after November 29, 2000, after compliance with 35 U.S.C. 371, the specific reference must be submitted during the pendency of the application and within the later of four months from the date on which the national stage commenced under 35 U.S.C. 371(b) or (f) or sixteen months from the filing date of the prior application. See 37 CFR 1.78(a)(2)(ii) and (a)(5)(ii). This time period is not extendable and a failure to submit the reference required by 35 U.S.C. 119(e) and/or 120, where applicable, within this time period is considered a waiver of any benefit of such prior application(s) under 35 U.S.C. 119(e),

Art Unit: 3682

120, 121 and 365(c). A benefit claim filed after the required time period may be accepted if it is accompanied by a grantable petition to accept an unintentionally delayed benefit claim under 35 U.S.C. 119(e), 120, 121 and 365(c). The petition must be accompanied by (1) the reference required by 35 U.S.C. 120 or 119(e) and 37 CFR 1.78(a)(2) or (a)(5) to the prior application (unless previously submitted), (2) a surcharge under 37 CFR 1.17(t), and (3) a statement that the entire delay between the date the claim was due under 37 CFR 1.78(a)(2) or (a)(5) and the date the claim was filed was unintentional. The Director may require additional information where there is a question whether the delay was unintentional. The petition should be addressed to: Mail Stop Petition. Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If the reference to the prior application was previously submitted within the time period set forth in 37 CFR 1.78(a), but not in the first sentence(s) of the specification or an application data sheet (ADS) as required by 37 CFR 1.78(a) (e.g., if the reference was submitted in an oath or declaration or the application transmittal letter), and the information concerning the benefit claim was recognized by the Office as shown by its inclusion on the first filing receipt, the petition under 37 CFR 1.78(a) and the surcharge under 37 CFR 1.17(t) are not required. Applicant is still required to submit the reference in compliance with 37 CFR 1.78(a) by filing an amendment to the first sentence(s) of the specification or an ADS. See MPEP § 201.11.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the ball socket of the

Art Unit: 3682

second connector must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. (Note: it appears applicant intended for the ball socket to be disposed in the first connector)

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. The disclosure is objected to because of the following informalities:

On page 5 line 14, "first connector 11 and the second connector 12 closed" should read –are—closed.

Art Unit: 3682

On page 6 line 23, "accelerating" should read –accelerate--

Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 2,3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The phrases "axially movably coupled" in claim 2 and "axially movable suspended" in claim 3 are unclear.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Botsford (USP-2,160,012)

Botsford discloses an extendable coupling structure for use in an internal combustion engine comprising a first connector (12) having a top end pivoted to a piston and a bottom end, a second connector (13) having a bottom end pivoted to a crankshaft and a top end, a hinge means (16 & 20) coupled between the periphery of the bottom end of the first connector (12) and the periphery of the top end of the second

Art Unit: 3682

connector (13), and a spring based guide means (21) coupled between the bottom end of the first connector (12) and the top end of the second connector (13).

8. Claims 1,2 are rejected under 35 U.S.C. 102(b) as being anitcipated by Sugimoto et al. (USP-5,562068).

Re clm 1: Sugimoto discloses an extendable coupling structure for use in an internal combustion engine comprising a first connector (2s) having a top end (5) pivoted to a piston (4) and a bottom end (Figure 1), a second connector (2b) having a bottom end (1P) connected to a crankshaft and a top end (Figure 1), a hinge means (7) coupled between the periphery of the bottom end of the first connector (2s) and the top end of the second connector (2b), and a spring based guide means (9-14) coupled between the bottom end of the first connector (2b) and the second connector (2s).

Re clm 2: Sugimoto discloses an extendable coupling structure wherein the first connector (2s) comprises a ball socket (11,12) formed in the bottom end thereof, second connector (2b) comprises a stepped receiving hole (10) axially extended in the top end thereof, said spring based guide means has first end coupled to the ball socket of the first connector (2s) and a second end axially movable to the stepped receiving hole (10) of the second connector (2b).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 3682

10. Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugimoto (USP-5,562,068) in view of Reid et al (USP-4,254,743).

Re clm 3: Sugimoto discloses all of the claimed subject matter as described above. Sugimoto further discloses a spring guide pin (9,12,14) suspended in a stepped receiving hole (10) of the second connector (2b) having a top end aimed at the ball socket (11,12), a spring member (13) having a top end fixedly fastened to the periphery of said spring guide pin (14) and a bottom end supported on a step (top of ball) inside of said stepped receiving hole, and a movable press rod member (9,12) having a top end terminating in a rounded head (12) and a bottom end terminating in a flat circular block (Figure 7) axially movably fitted into said stepped receiving hole.

Sugimoto does not disclose the spring member (13) mounted around the spring guide pin.

Reid et al. teaches a spring member (23) mounted around (Figure 2) a spring guide pin (27) for the purpose of pressing apart the first connector and the second connector with enough force so that the rod is completely extended at all times except during the final period of combustion (C4 L11-14).

It would have been obvious at the time the invention was made to a person of ordinary skill in the art to mount the spring member around the spring guide pin, as taught by Reid, in the device of Sugimoto for the purpose of pressing apart the first connector and the second connector with enough force so that the rod is completely extended at all times except during the final period of combustion.

Art Unit: 3682

Re clm 4: Sugimoto discloses an extendable coupling structure wherein the spring member (13) is a compression spring.

Re clm 5: Sugimoto discloses an extendable coupling structure wherein spring guide pin (9,12,14) has a top end thereof formed integral with the flat circular block of the movable press rod member (9) (Note: According to Merriam-Webster's Collegiate Dictionary 10th edition, integral may be defined as c: formed as a unit with another part)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew Johnson whose telephone number is 571-272-6917. The examiner can normally be reached on Monday - Friday 8:30a.m. - 5:00p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on 571-272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Page 9

Application/Control Number: 10/772,459

Art Unit: 3682

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MAJ

MAJ 11/28/2006

RICHARD RIDLEY
SUPERVISORY PATENT EXAMINER